

FIG. 1

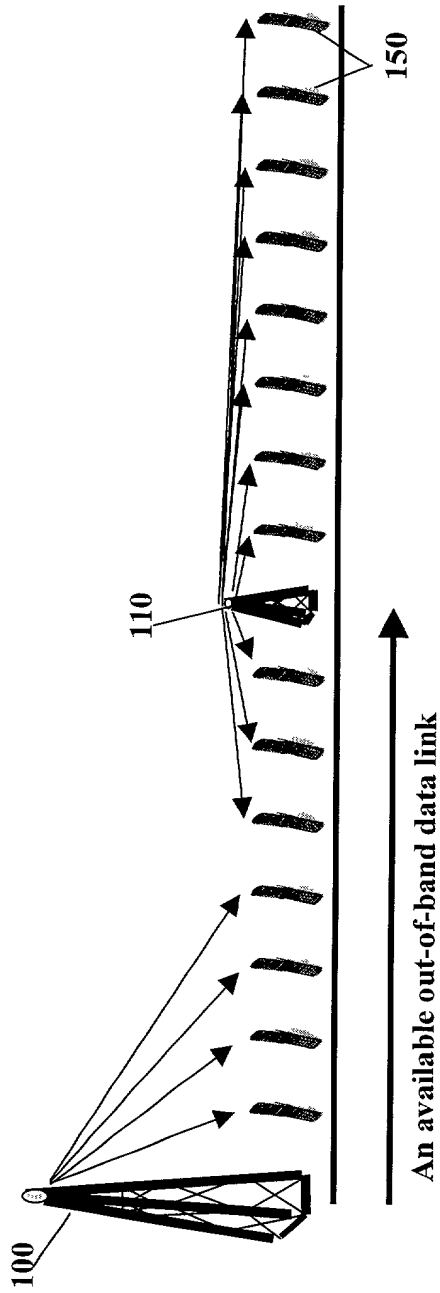


FIG. 2

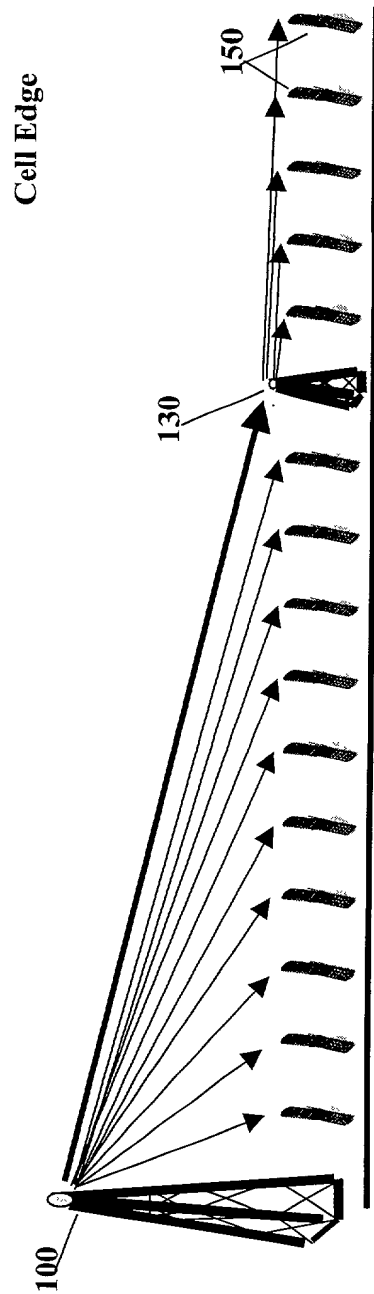


FIG. 3

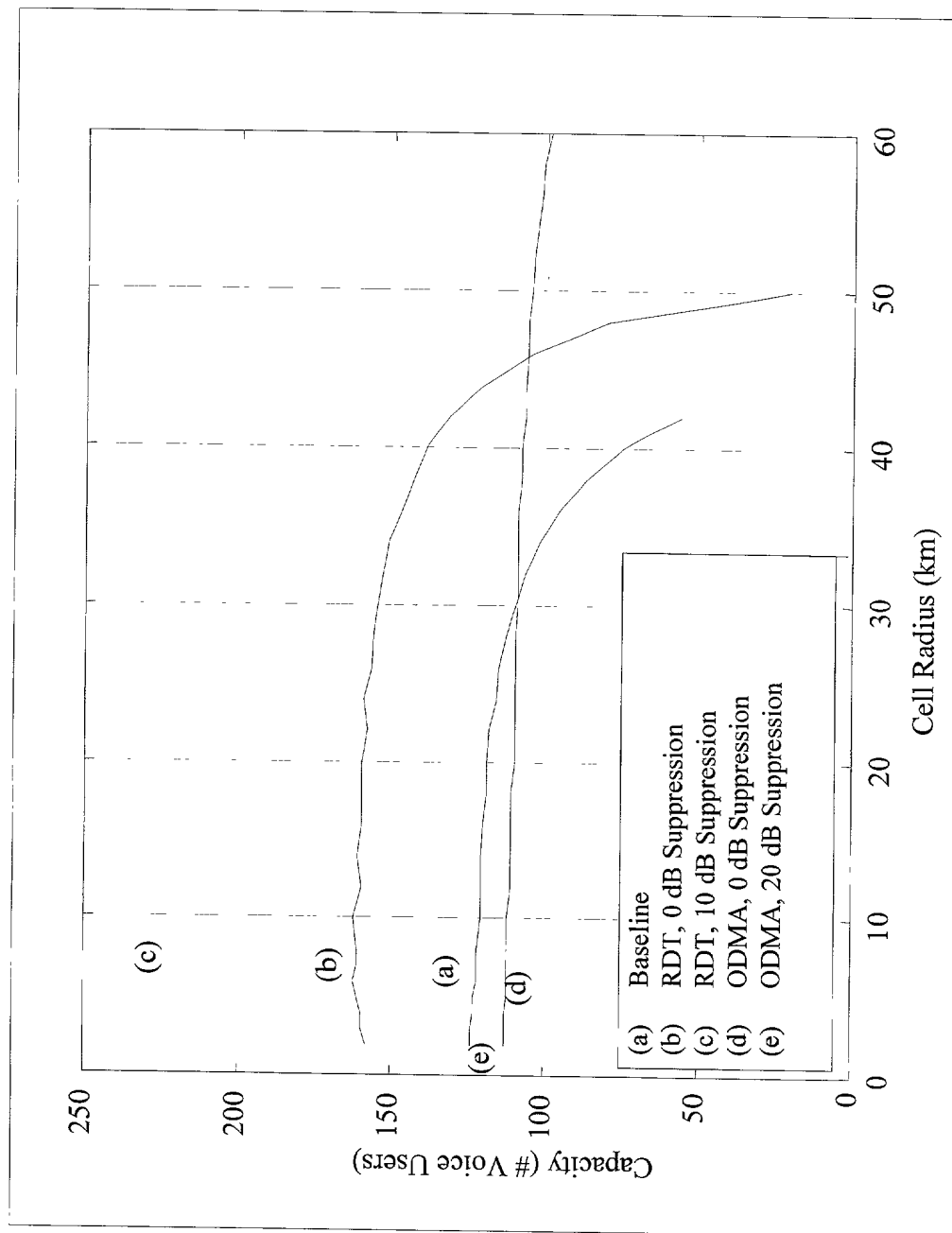


FIG. 4

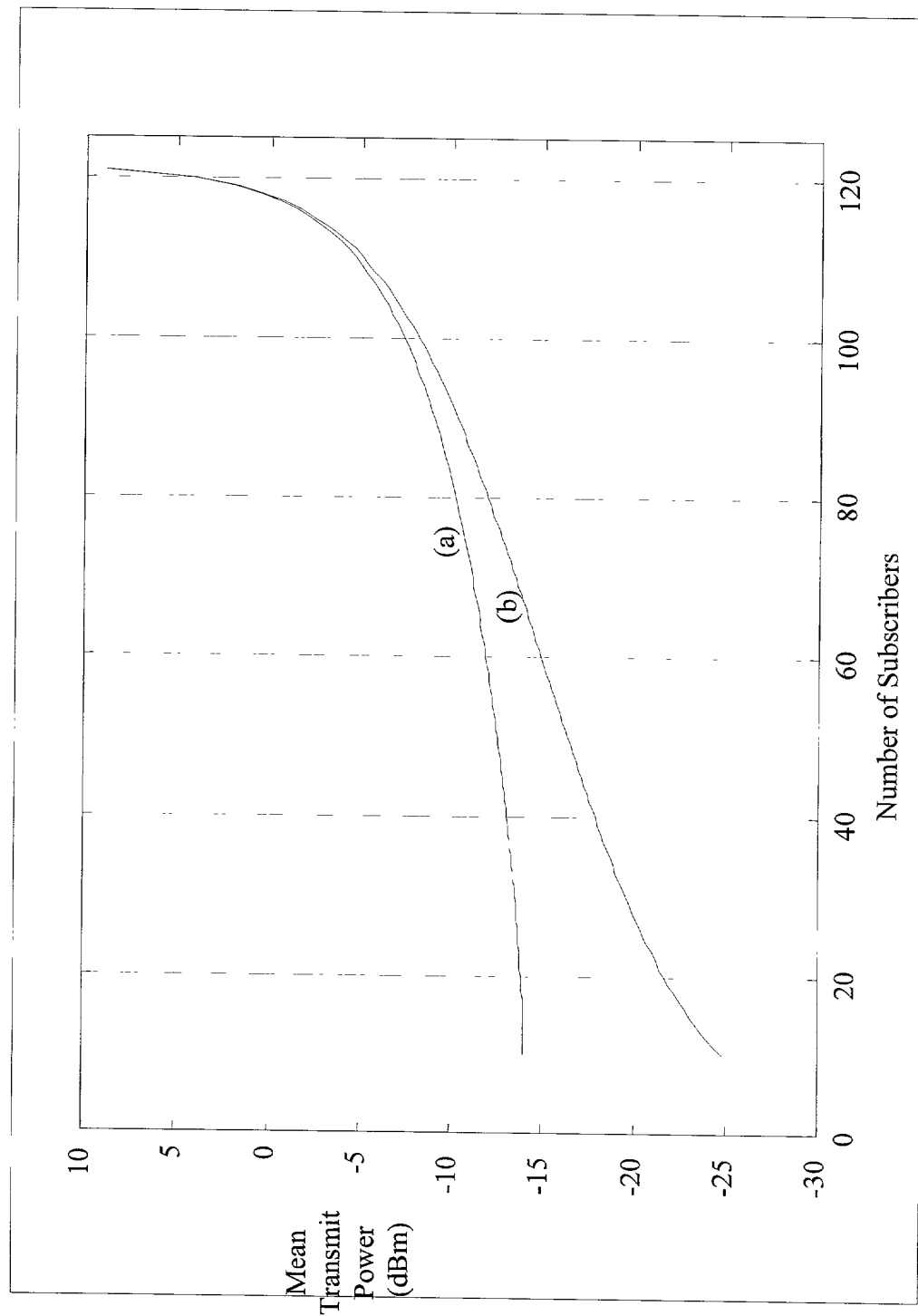


FIG. 5

Subscriber Assignment Pattern
for a typical cell simulation

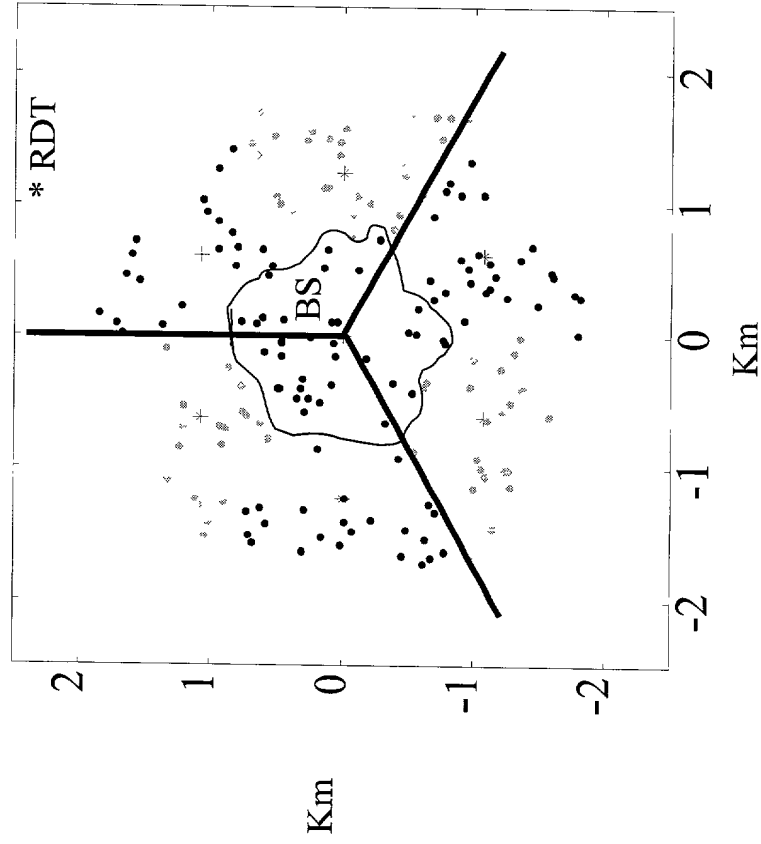


FIG. 6

Simulated Capacity
($< 5\%$ Unsatisfied Users/Service)

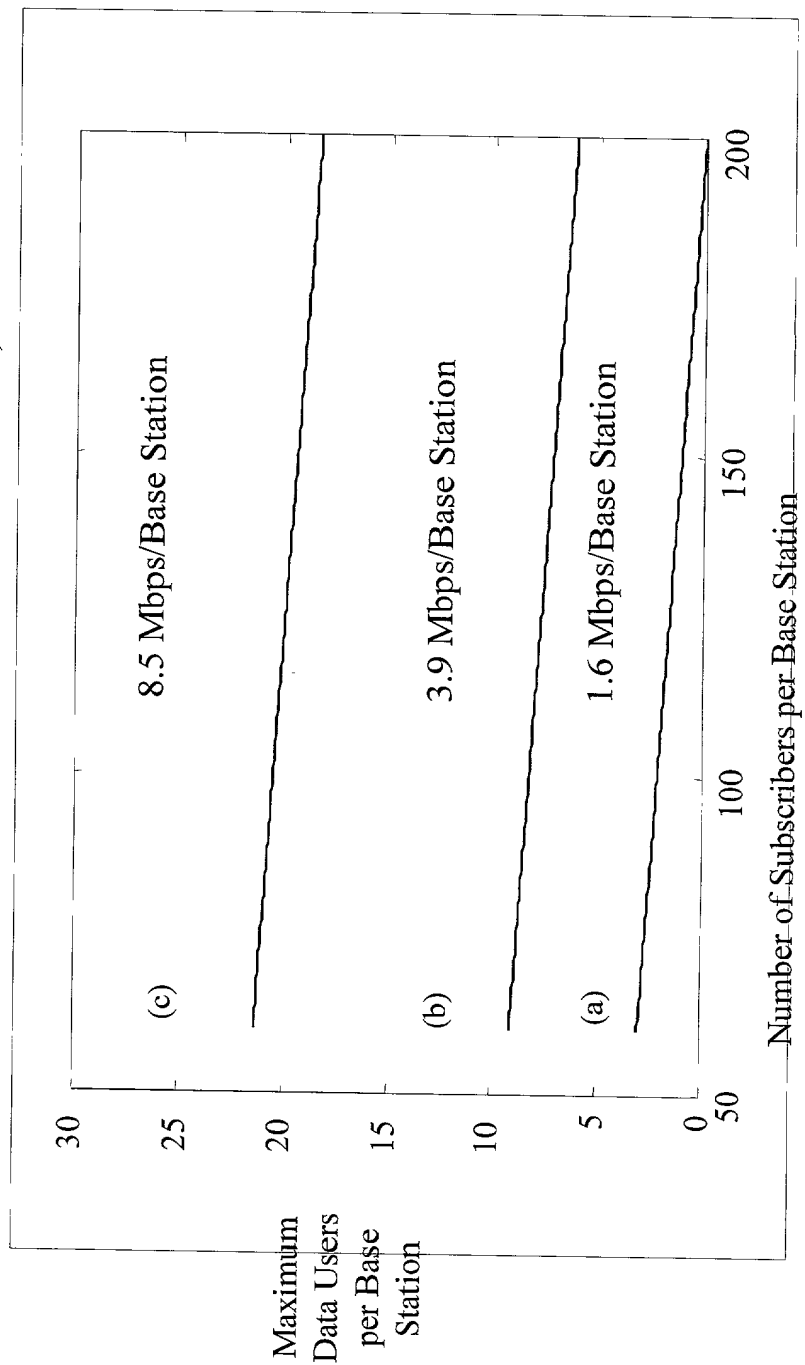


FIG. 7

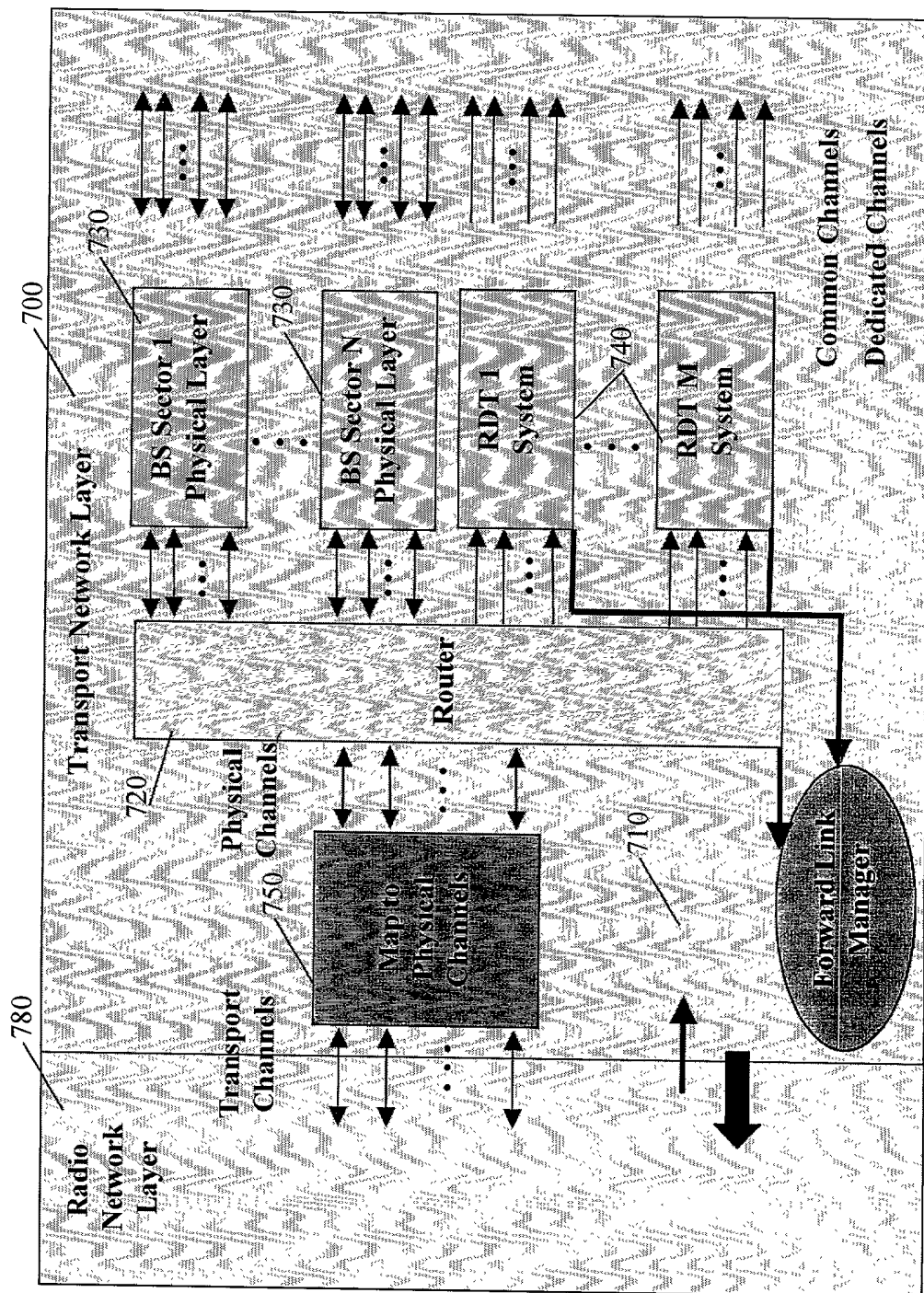


FIG. 8 is a block diagram of a system architecture. The diagram shows a central Router (720) connected to various components. On the left, there are four vertical double-headed arrows representing connections to BS 1 Logical Sectors. Below the Router, an arrow labeled RDT Link Metrics points to the Router, and another arrow labeled FLM points away from the Router. On the right, the Router is connected to a series of Radio Resources, which include BS 1 Sector 1, BS 1 Sector N, BS 1 RDT 1, BS 1 RDT N, BS 2 Sector 1, and BS 2 Sector N, with ellipses indicating additional resources. Each of these Radio Resource blocks is labeled with a reference numeral 730. The Router itself is labeled with reference numeral 720.

FIG. 8

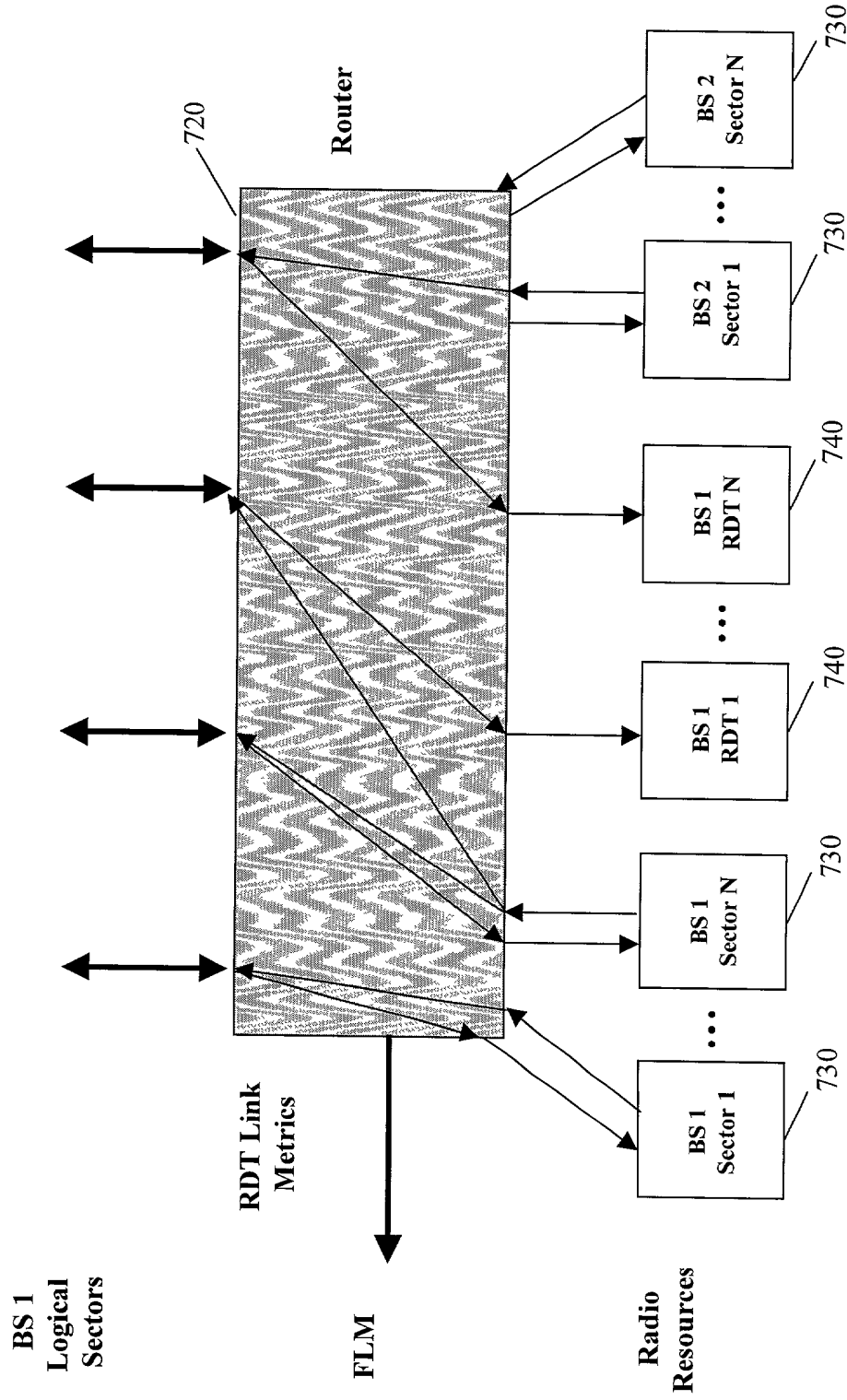


FIG. 9

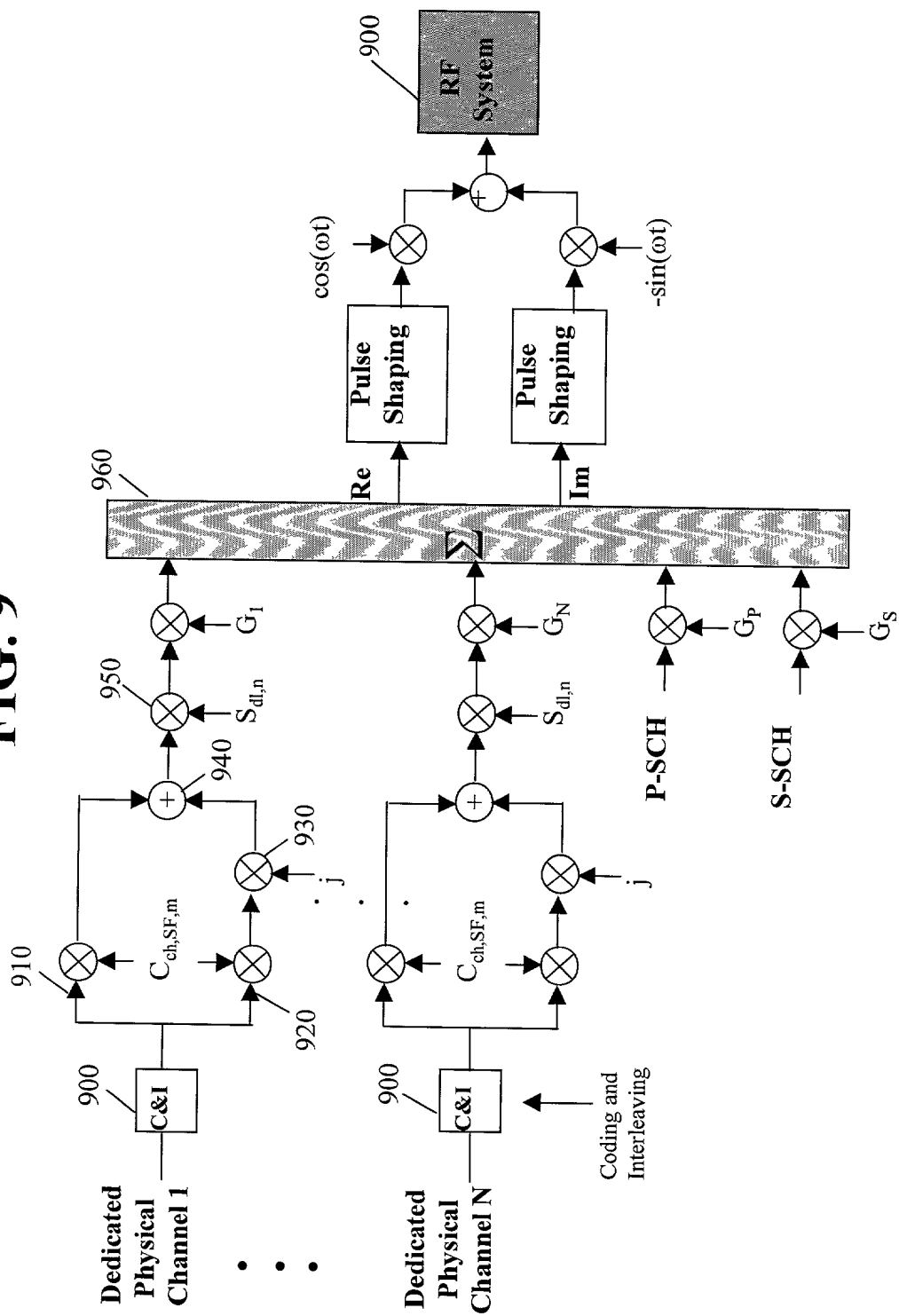


FIG. 10

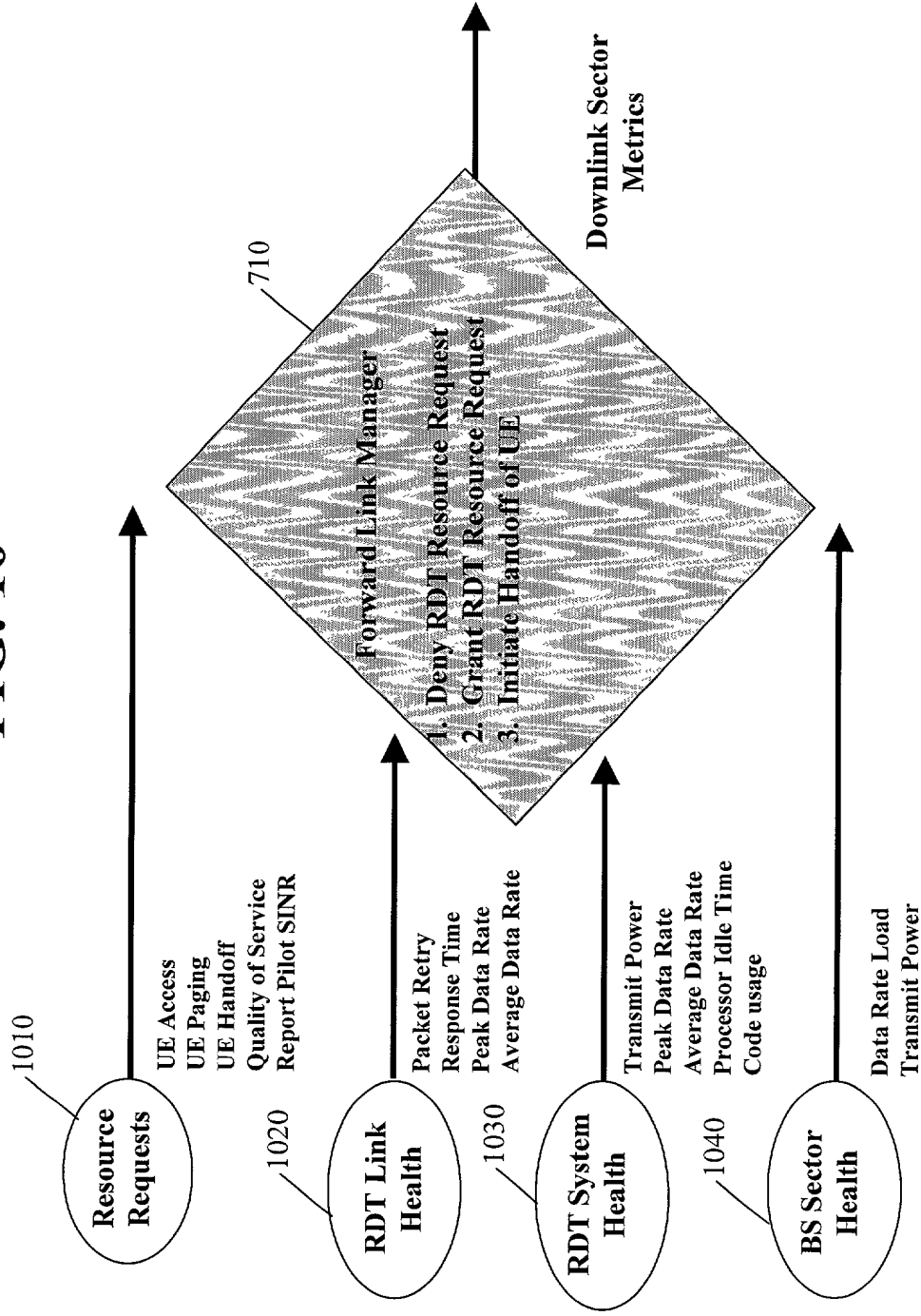


FIG. 11

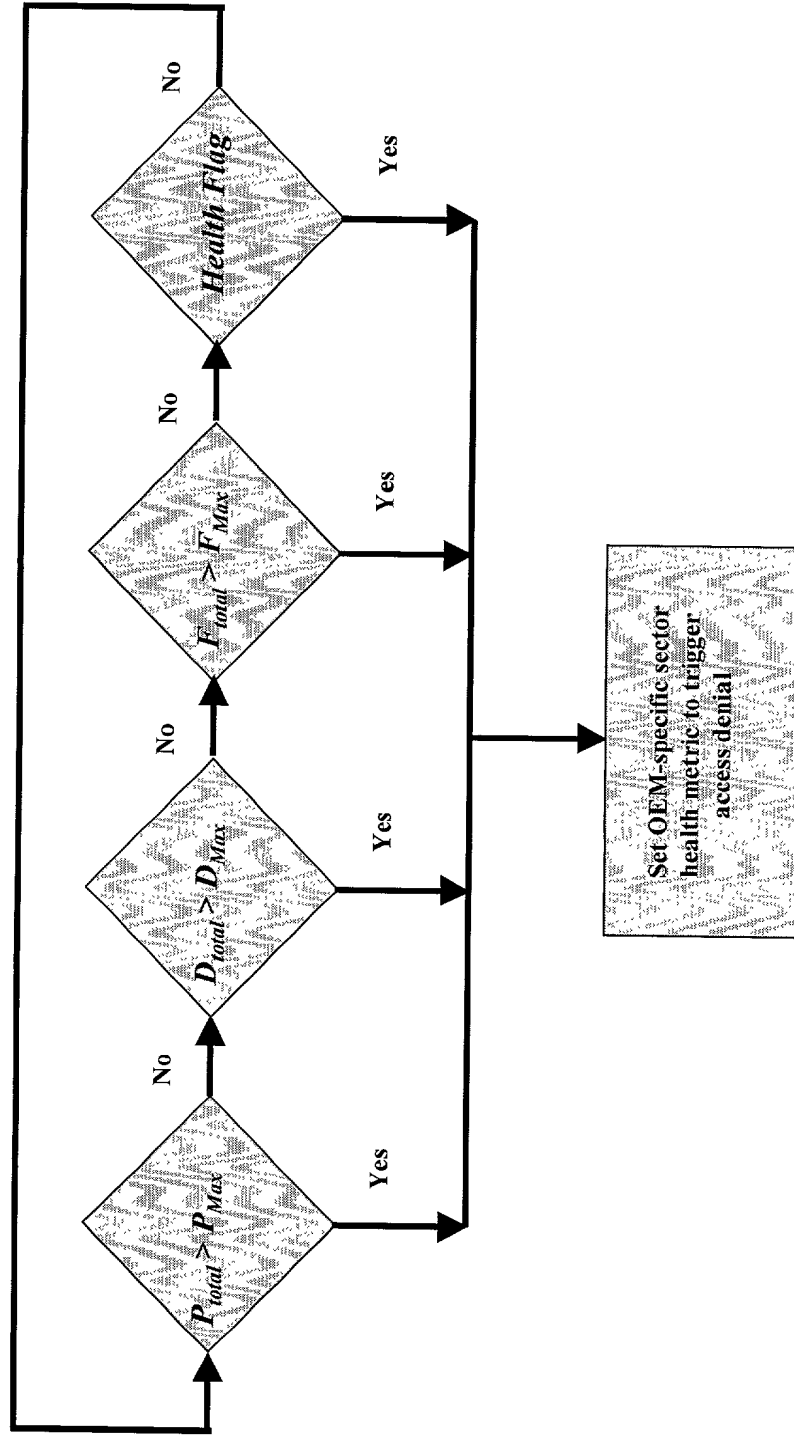


FIG. 12

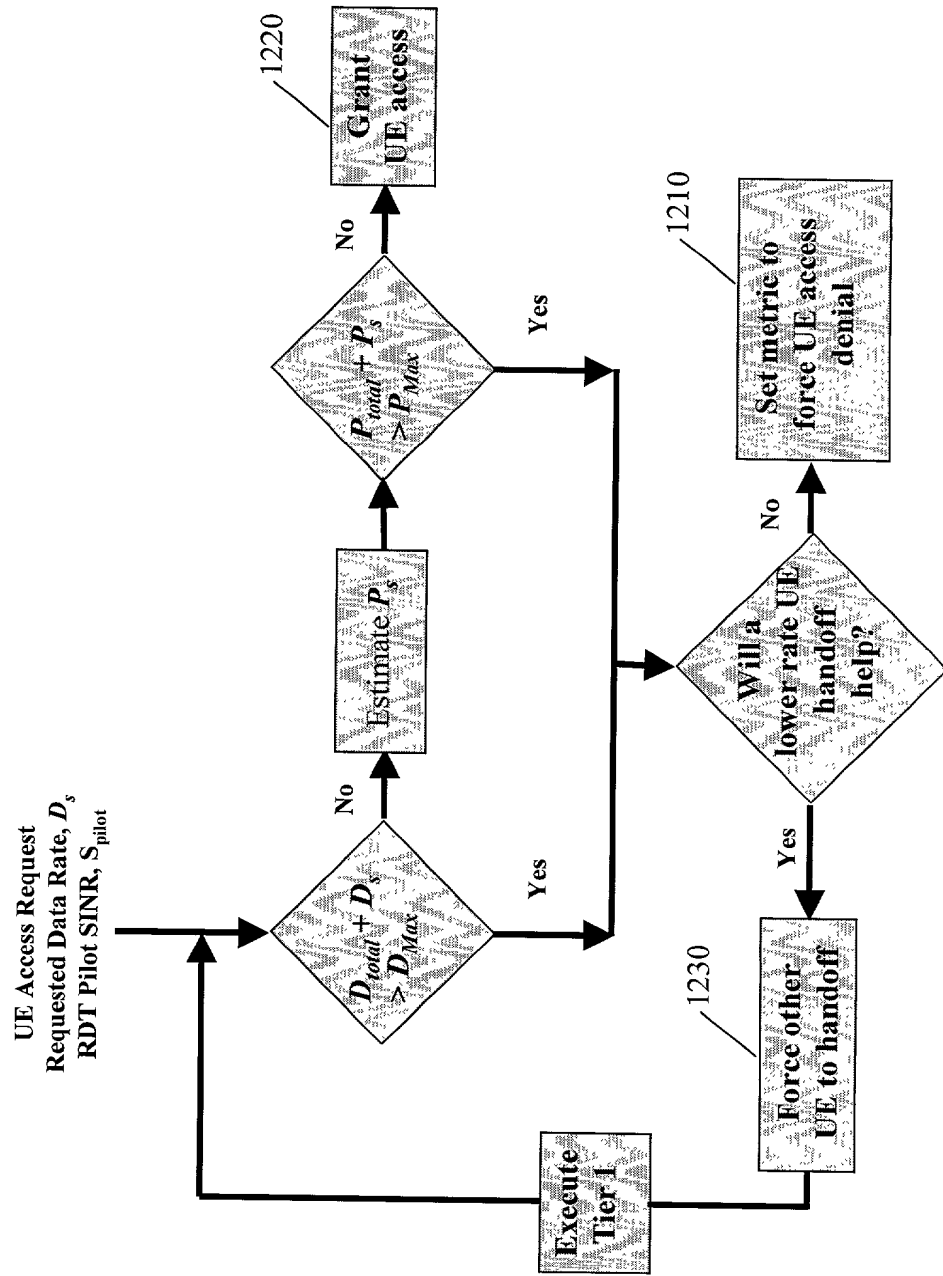


FIG. 13

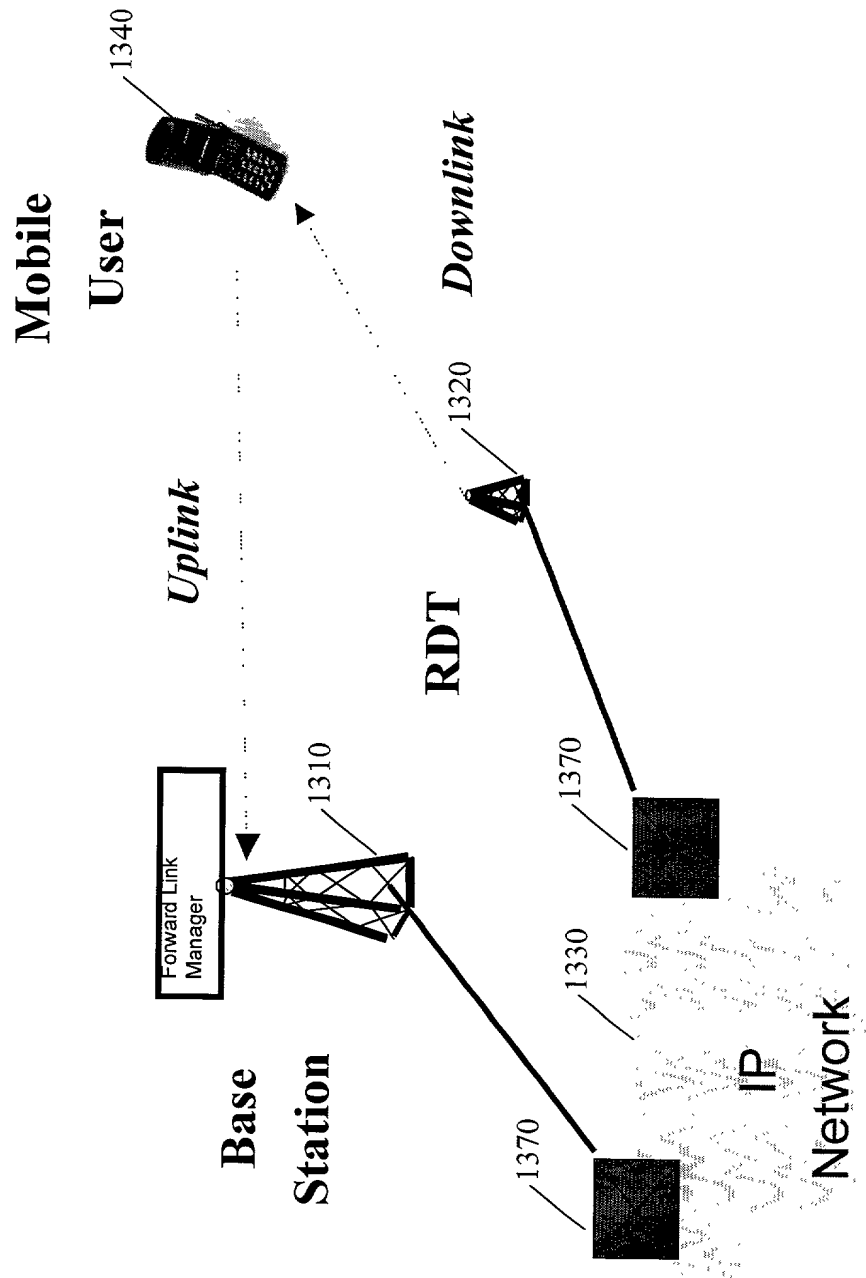


FIG. 14

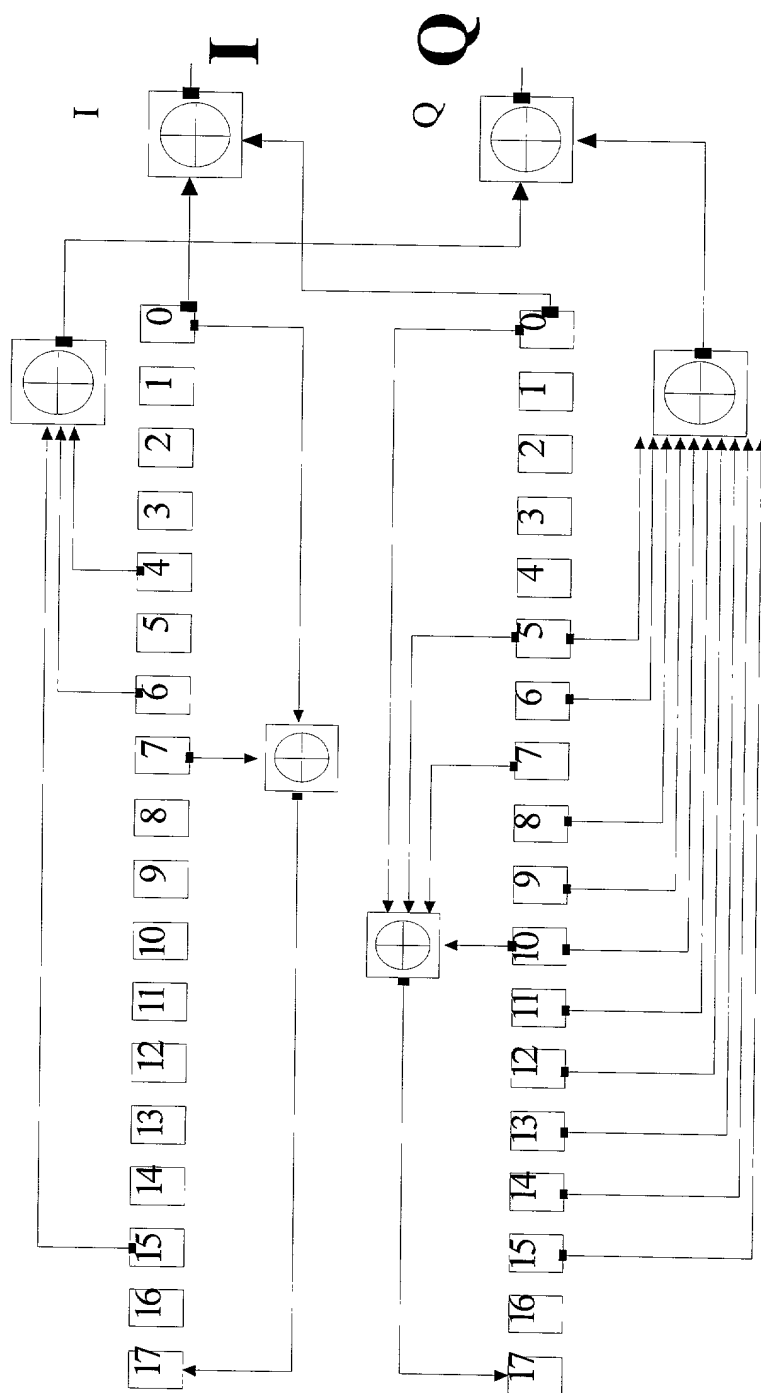


FIG. 15a

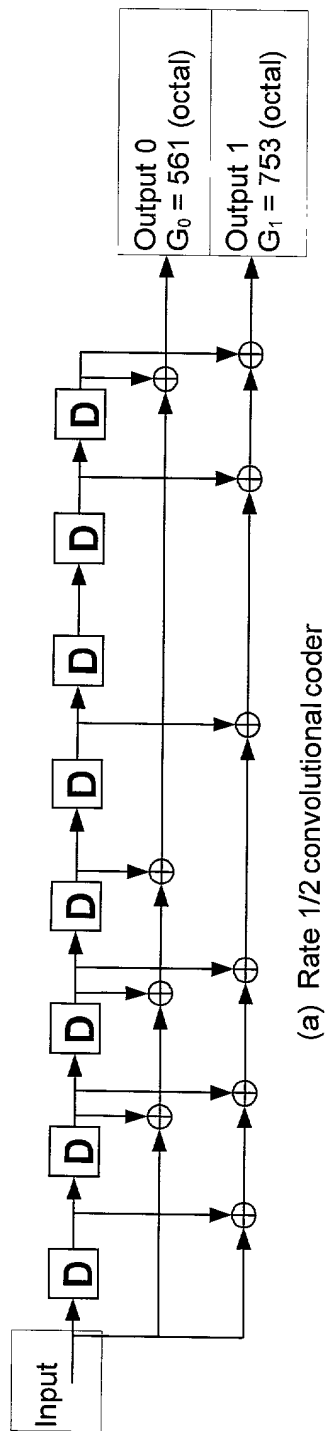


FIG. 15b

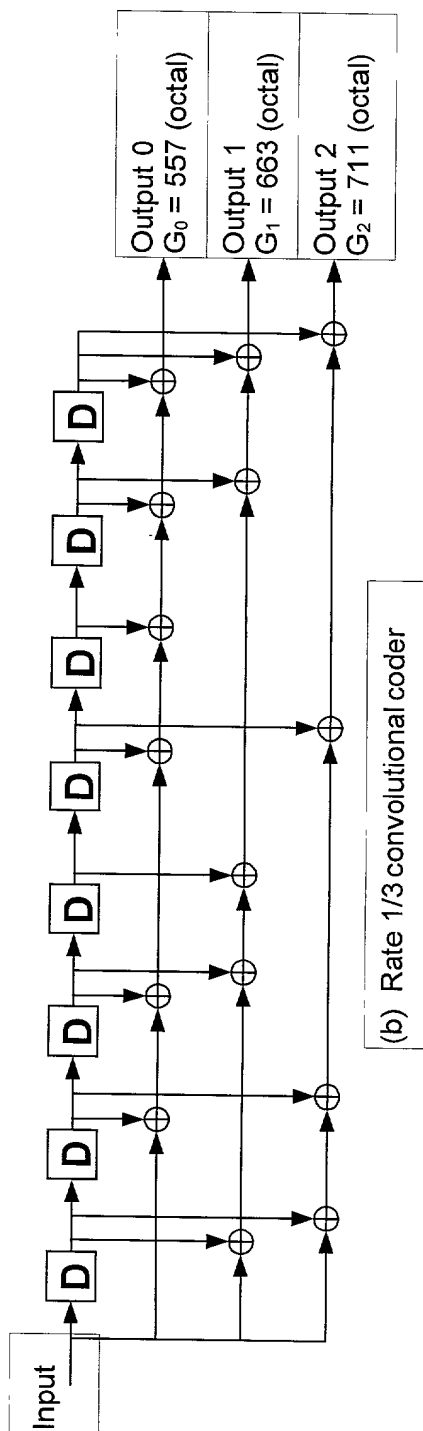


FIG. 16

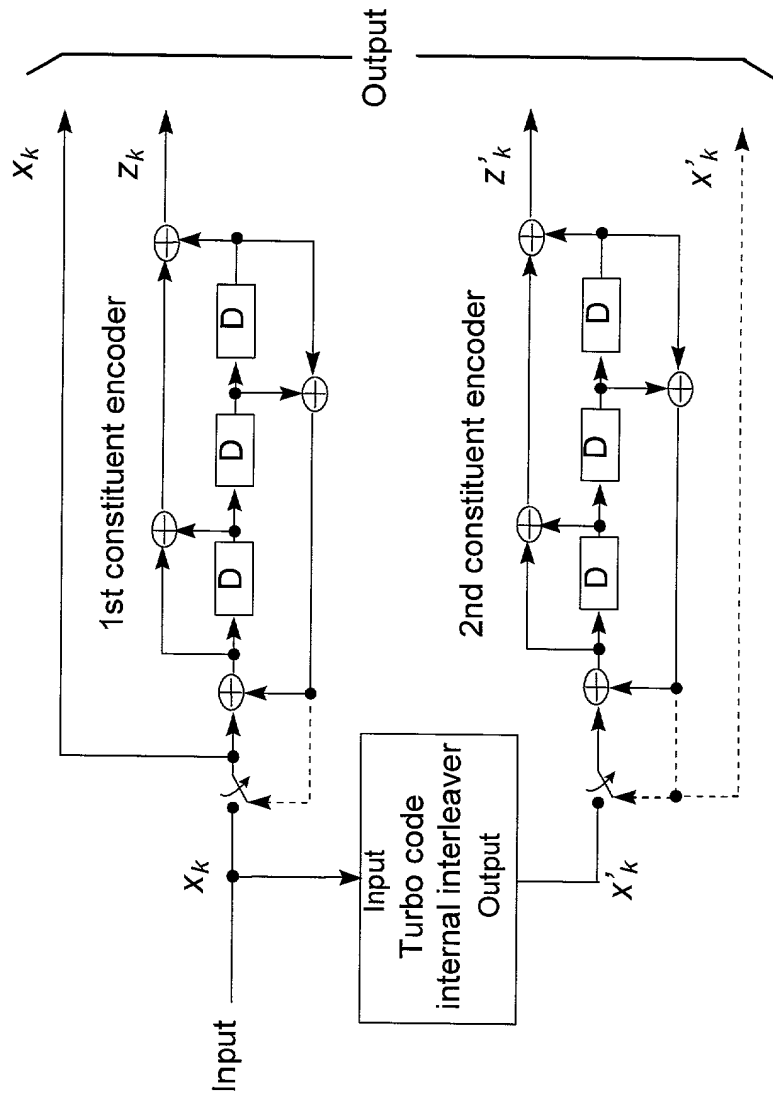


FIG. 17

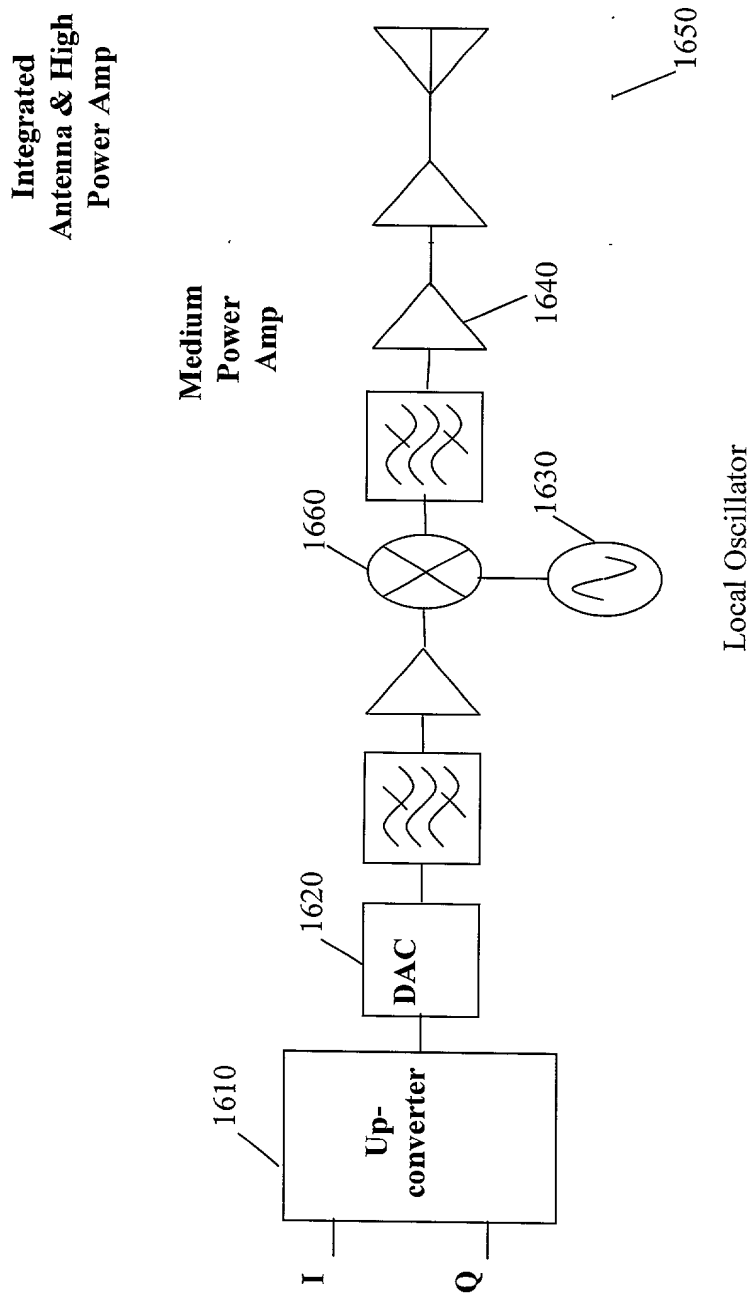


FIG. 18 is a block diagram of a corporate feed system for an Airline Fed slot radiator array. The system includes an RF input connector, a corporate feed network, and four parallel RF amplifier chains, each driving an Air Slot radiator.

FIG. 18

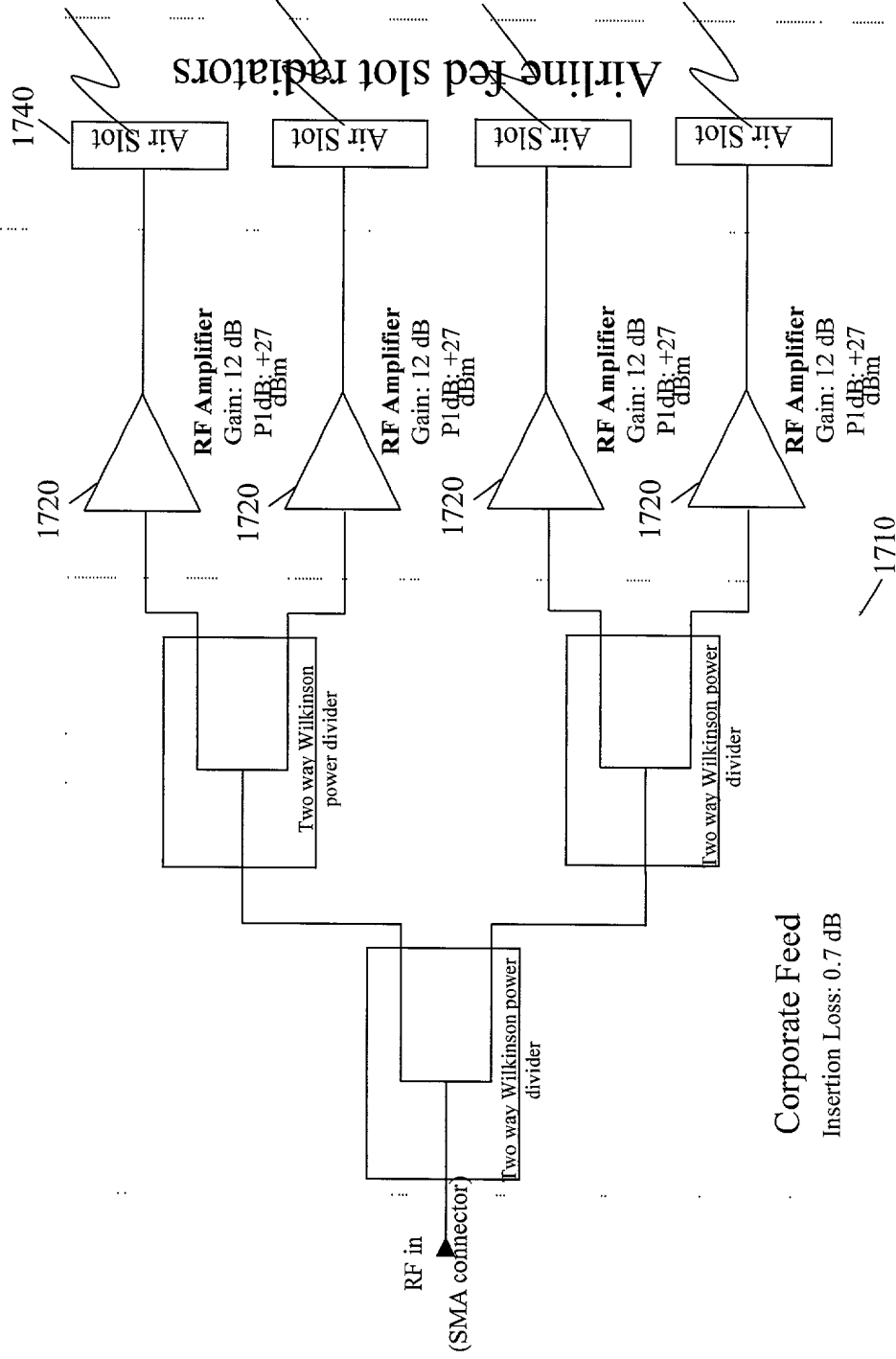


FIG. 19a

Air Slot in top ground plane

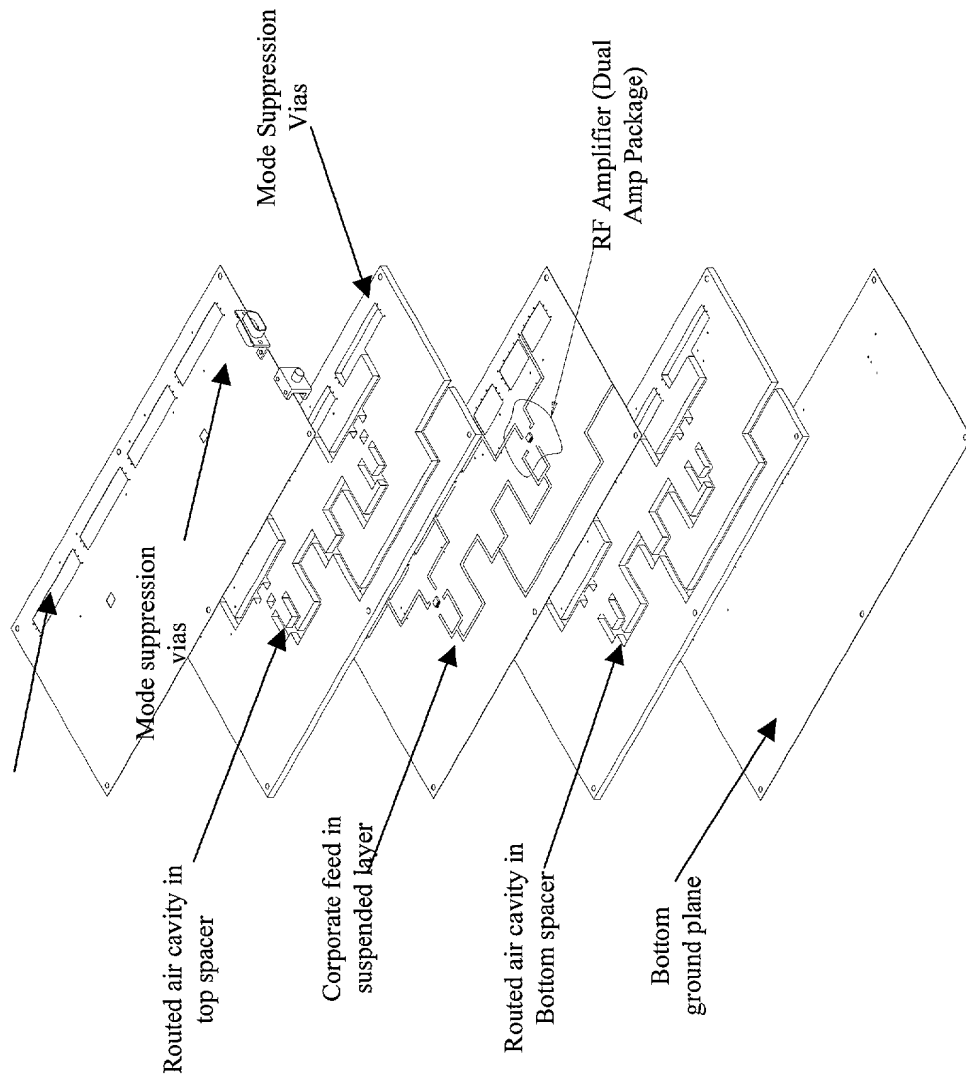


FIG. 19b

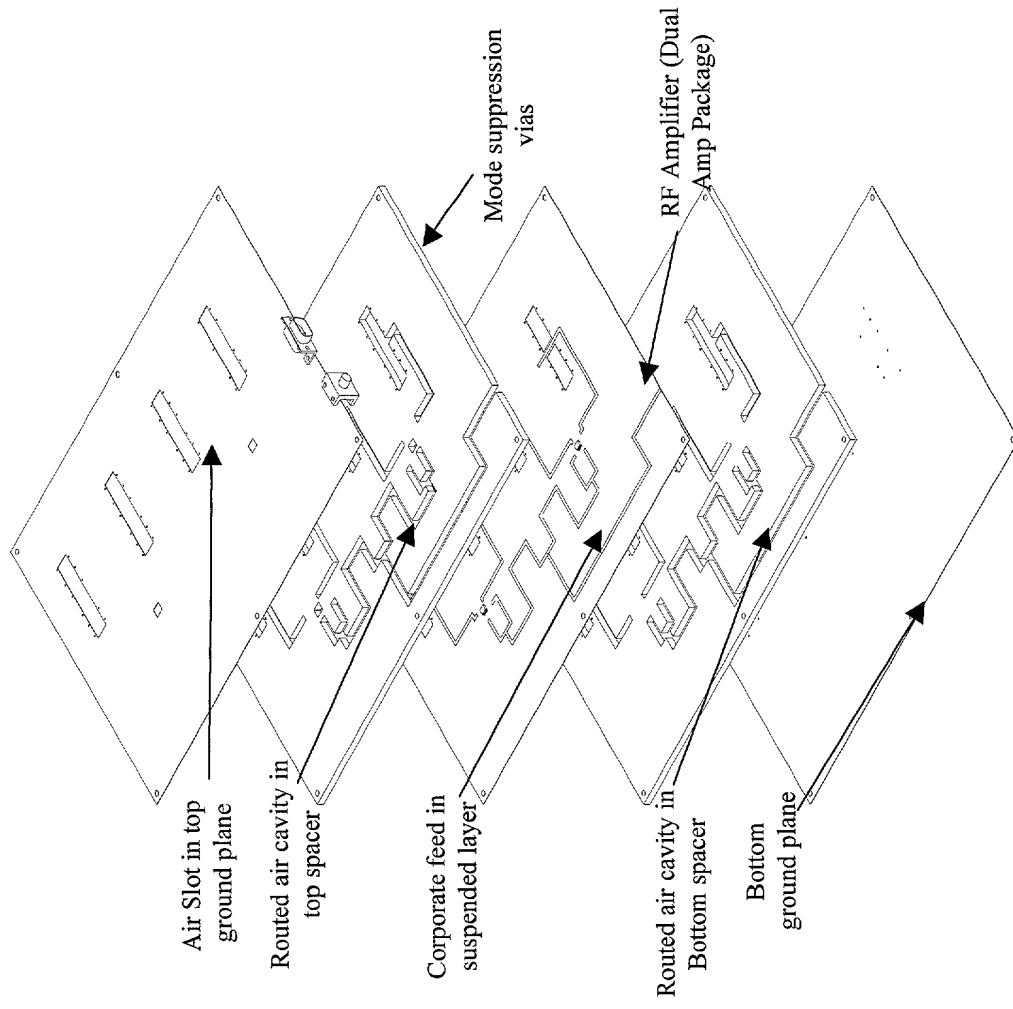


FIG. 20

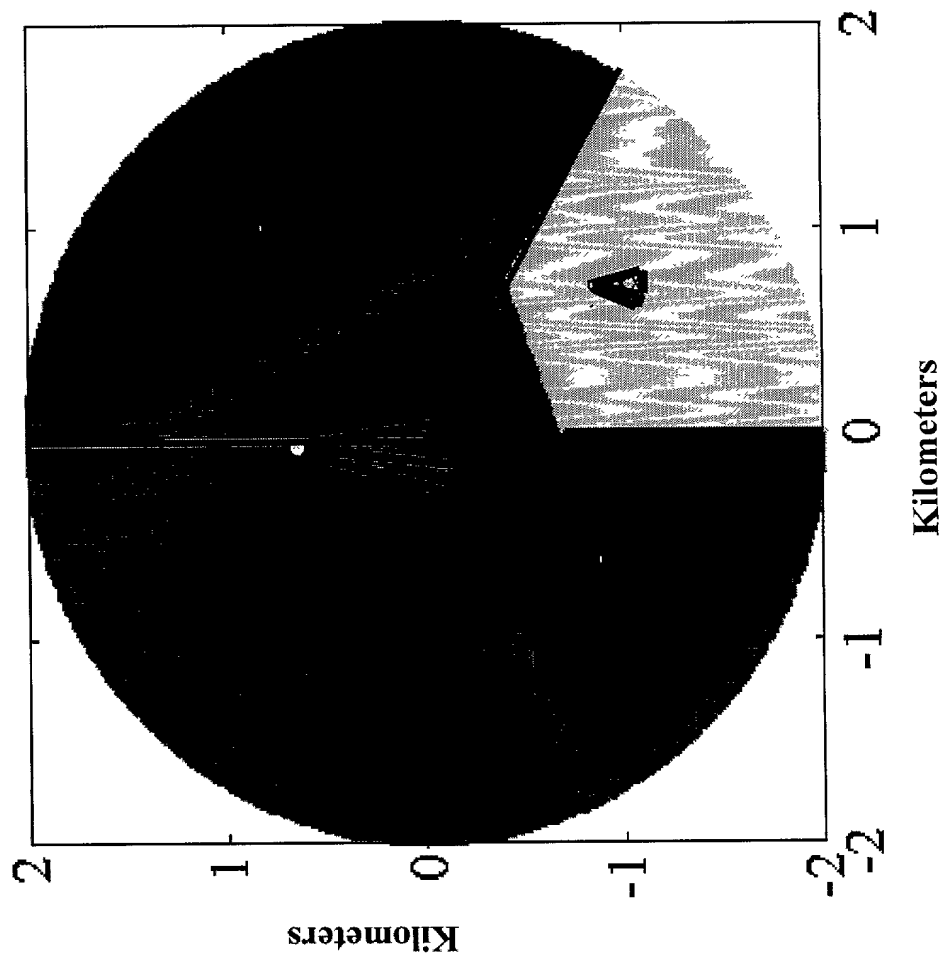


FIG. 21

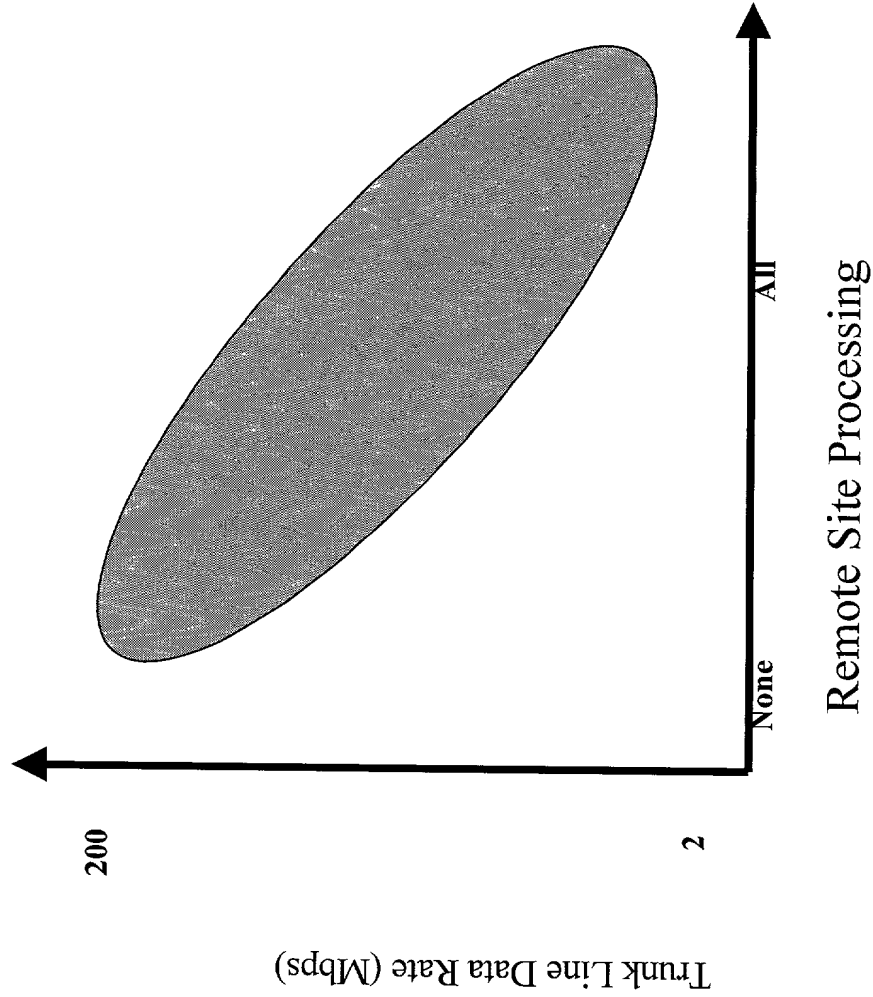


FIG. 22

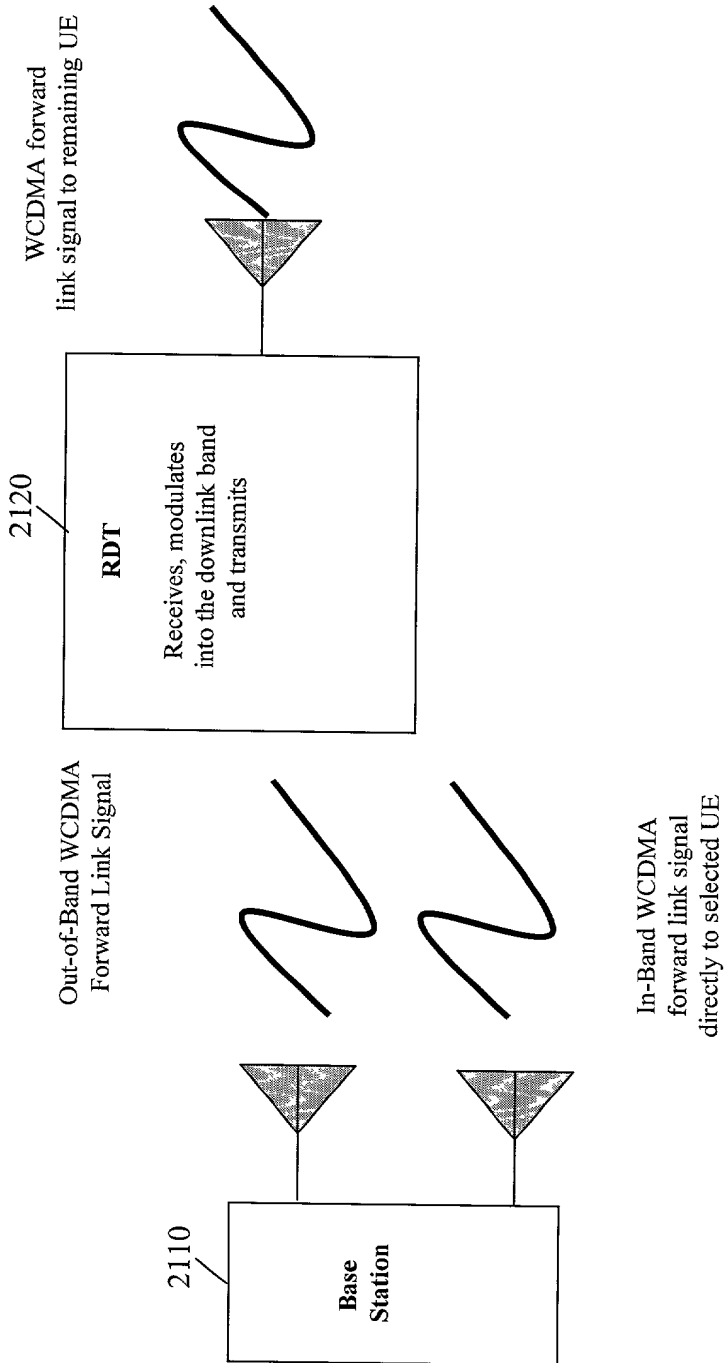


FIG. 23

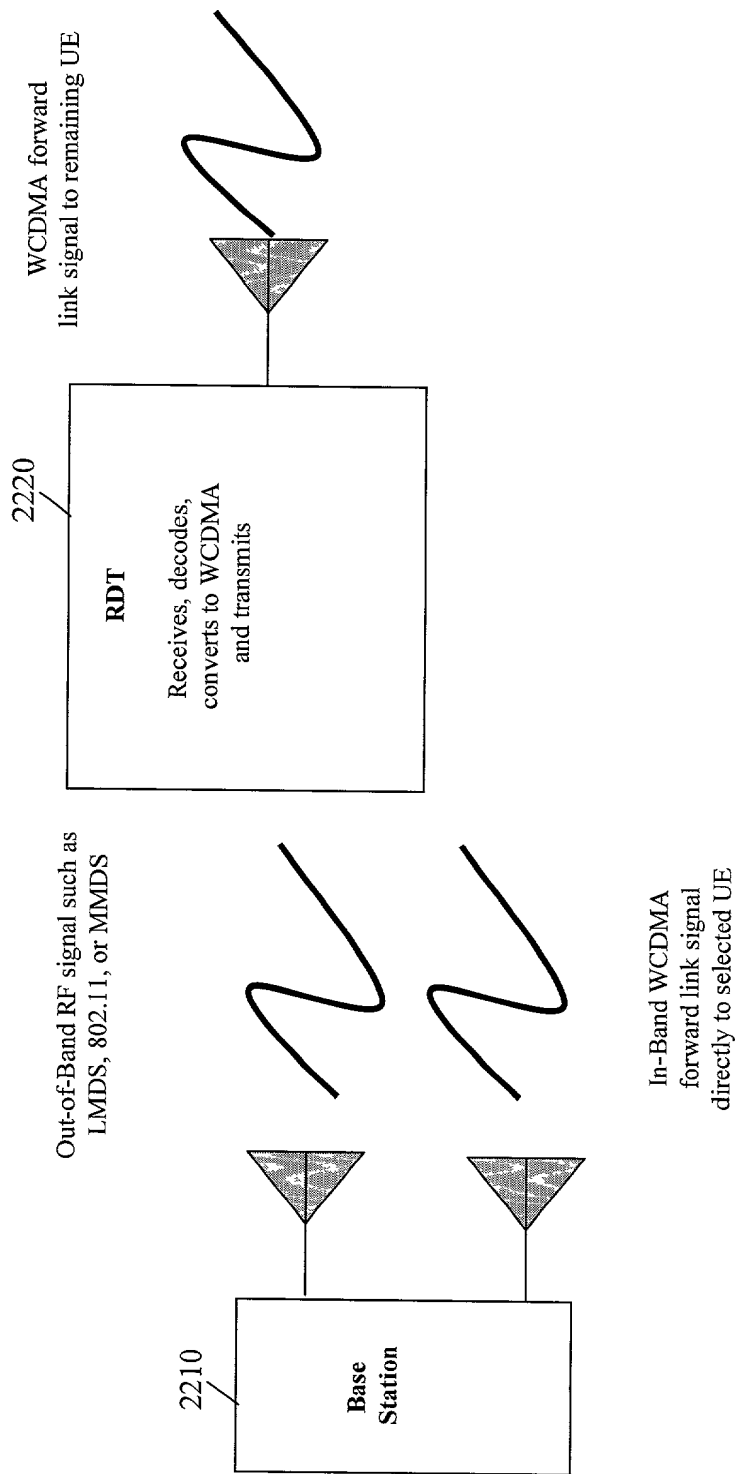


FIG. 24

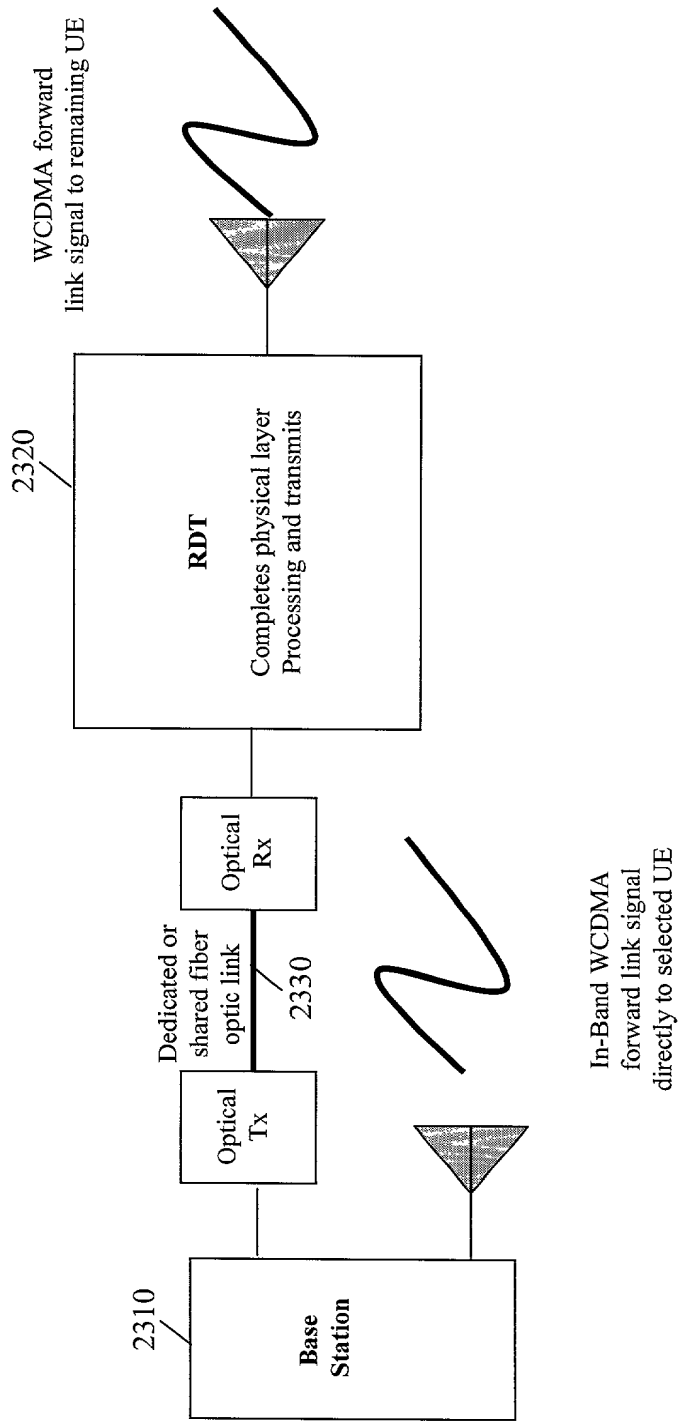


FIG. 25

